APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290038-3

Production of Atomic Oxygen in Water Vapor Discharge and Some of Its Reactions, by L. E. Avramenko.

RUSSIAN, per. Zhur Fiz Khim, Vol XXIII, No 7, 1949.

AEC Tr 200

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Avail in Mr Wyatt's office - OSI

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SHVARTSMAN L. L.

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5 tables, 1600 words.

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Brutcher Trans, Order No. 2373, $2.80.

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Investigation of Cellulose and Its Derivatives by Infrared Absorption Spectra, by V. N. Nikitin, 13 pp.

RUSSIAN, per. Zhur Fiz. Khim, Vol XXIII, No 7, 1949, pp 775-785.

NUL [illegible] CIA/FDD/X-1315

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The Fundamental Equation of Topochemical Reactions Which are Not Catalyzed by the Solid Reaction Product, by M. M. Pavlyuchenko, 6 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, 1949, p 800.

AEC Tr-4123

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Reactions Involving Solids in the Absence of Any Catalytic Action of the Reaction Products, by M. M. Pavlyuchenko, 14 pp.

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The Problem of Measuring the Decomposition Voltage of Molten Electrolytes in the Presence of Glass Diaphragms., by N. G. Chovnyk, [illegible] pp.

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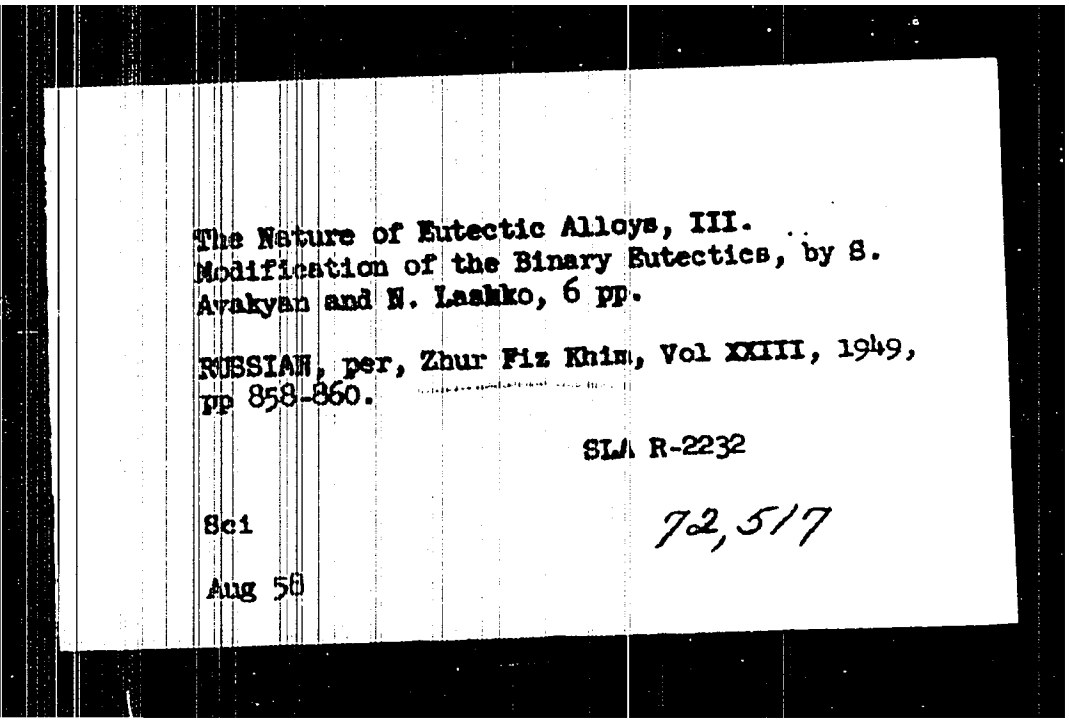

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SLA R-2232

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Gonikberg, M. G.
ON LIQUID-GAS PHASE EQUILIBRIA UNDER PRESSURE. [1963] 4p. 5 refs.
Order from OTS or SLA $1.10 63-14847

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1949, v. 23 [no. 7] p. 861-862.

DESCRIPTORS: *Phase studies, Liquids, Gases, Pressure, *Nitrogen, *Hydrogen, *Benzenes, Solubility.

(Chemistry--Physical, TT, v. 10, no. 6)

63-14847

I. Gonikberg, M. G.

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Stability of Supersaturated Salt Solutions, by M. Tovbin, S. Krasnove, 10 pp.

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The effect of intermolecular interaction on the spectra of the combination of light scattering (Raman spectra)

Zhur. Fiz. Khim., 23, No. 8, 873-884 (1949)

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The Kinetics of Desorption of Activated Absorbed Hydrogen, by N. P. Keyer, S. Z. Roginskiy

RUSSIAN, no per, Zhur Fiz Khim, Vol XXIII, No 8, 1949, pp 897-916.

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Some Special Properties of Adsorption Related to the Heat Disorder of the Surface of a Crystal, by F. F. Volkenstein, 20 [illegible] pp.

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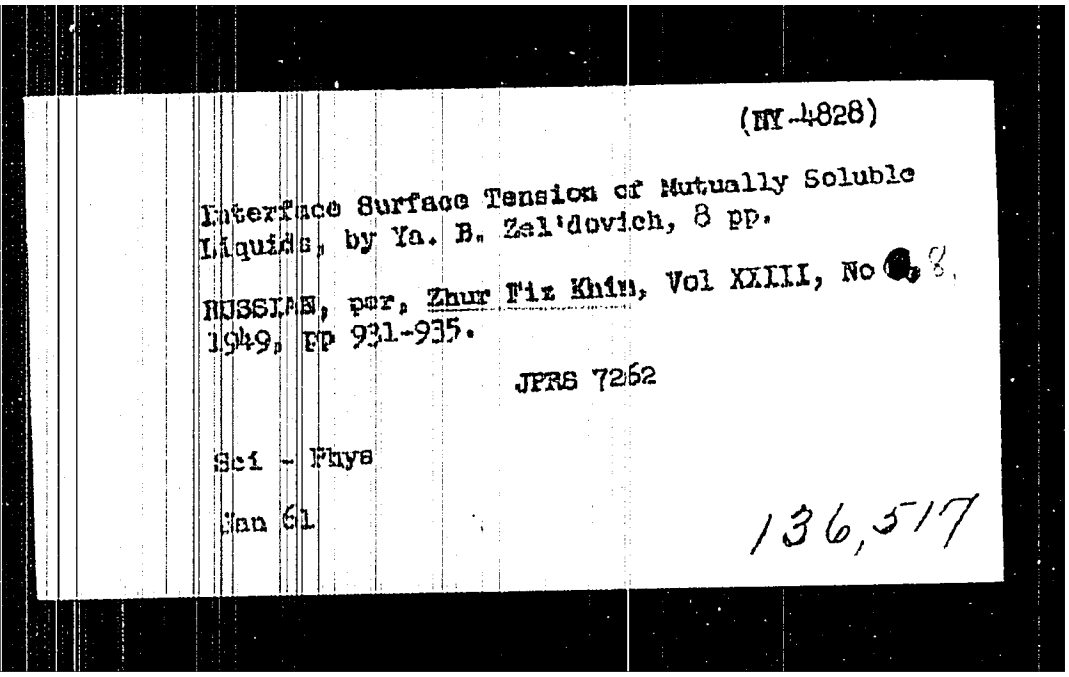

(MY-4828)

Interface Surface Tension of Mutually Soluble Liquids, by Ya. B. Zel'dovich, 8 pp.

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JPRS 7262

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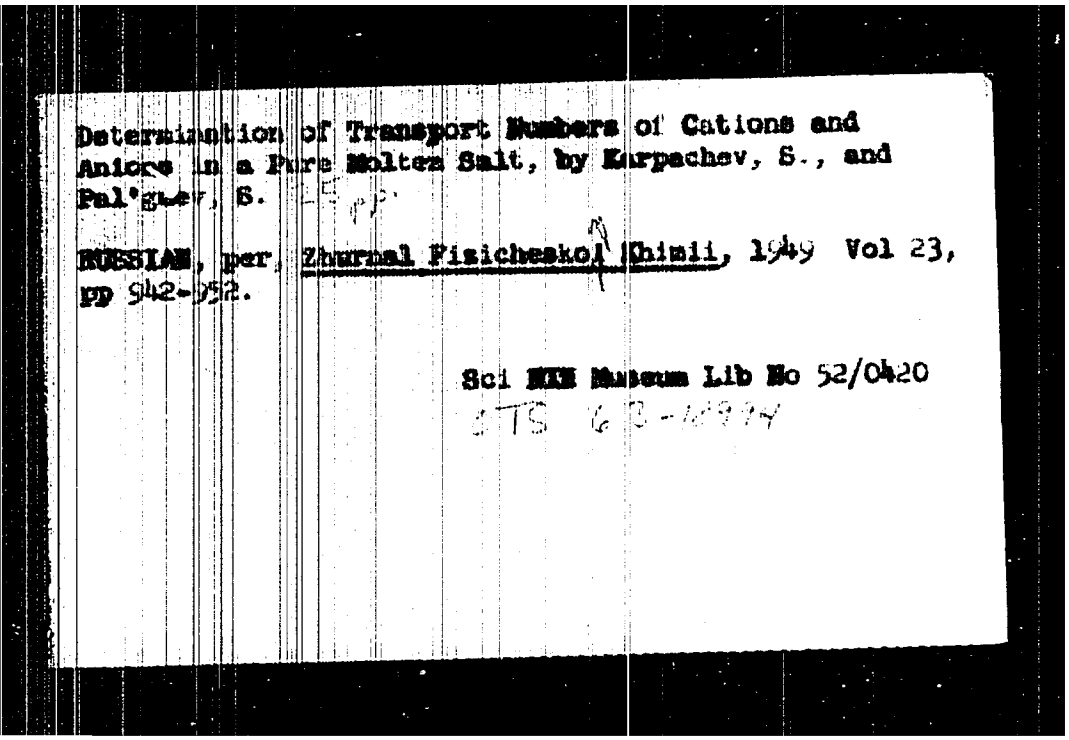

Determination of Transport Numbers of Cations and Anions in a Pure Molten Salt, by Karpachev, S., and Pal'guev, S.

RUSSIAN, per Zhurnal Fisicheskoi Khimii, 1949 Vol 23, pp 942-952.

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Investigation of Electrocapillary Phenomena in Tin-Gold and Bismuth-Tellurium Alloys, by S. Ivanov-Karpachev, E. Rodigina.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 8, 1949, pp 953-958.

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Effect of the Type of Mixed Solvent Upon Solubility. Solubility of Dimethyl Glyoxime in Aqueous-Alcoholic Mixtures, by A. G. Stromberg, 14 pp.

RUSSIAN, per. Zhur Fiz Khim, Vol XXIII, No 8, 1949, pp 962-968.

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Crystallochemical Mechanism of the Formation and Development of the Latent Photographic Image, by P. D. Dankov, 13 pp.

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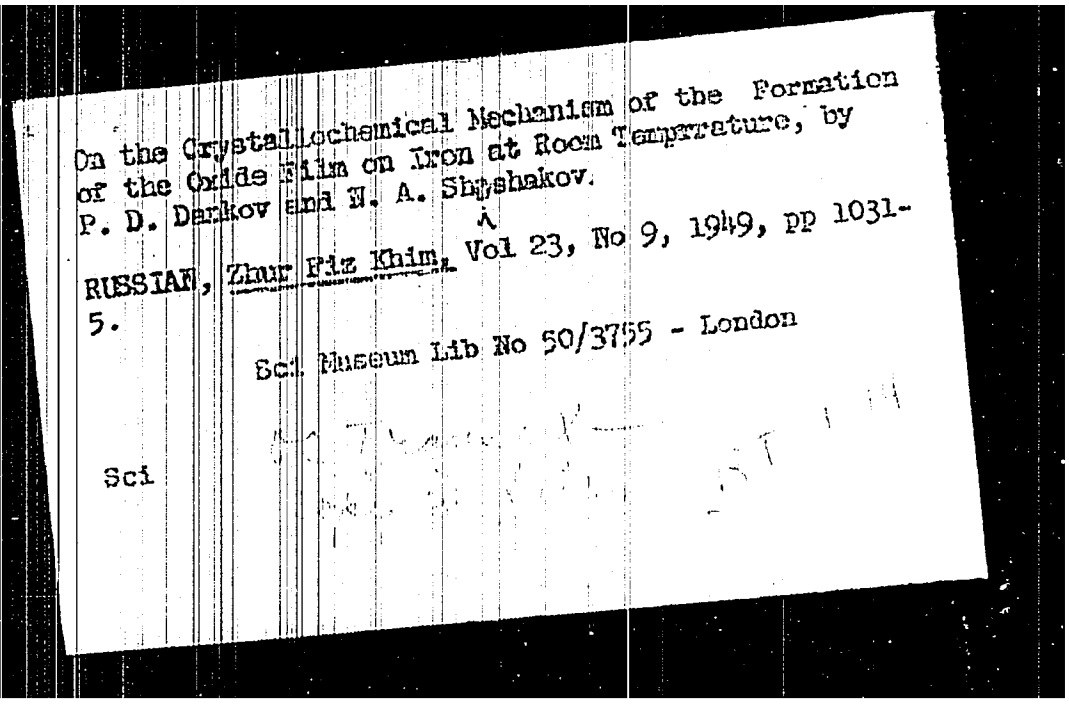

On the Crystallochemical Mechanism of the Formation of the Oxide Film on Iron at Room Temperature, by P. D. Dankov and N. A. Shishakov.

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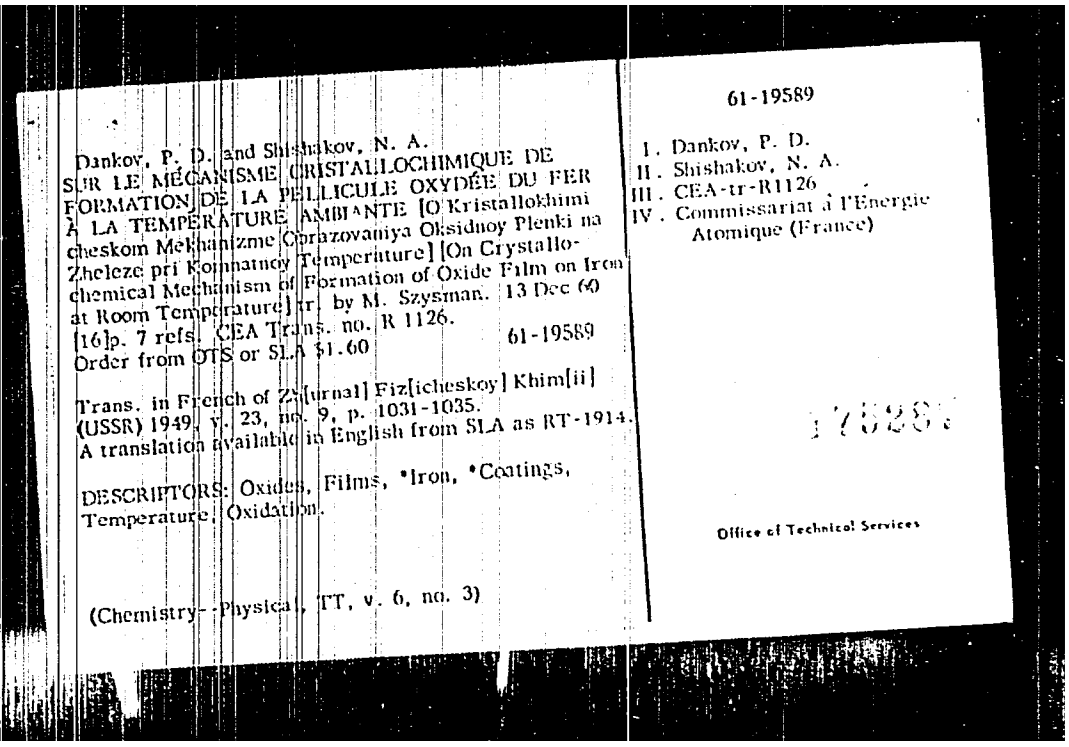

Dankov, P. D. and Shishakov, N. A.
SUR LE MÉCANISME CRISTALLOCHIMIQUE DE FORMATION DE LA PELLICULE OXYDÉE DU FER À LA TEMPERATURE AMBIANTE [O Kristallokhimicheskom Mekhanizme Obrazovaniya Oksidnoy Plenki na Zheleze pri Komnatnoy Temperature] [On Crystallochemical Mechanism of Formation of Oxide Film on Iron at Room Temperature] tr. by M. Szysman. 13 Dec 60 [16]p. 7 refs. CEA Trans. no. R 1126.
Order from OTS or SLA $1.60 61-19589

Trans. in French of Zh[urnal] Fiz[icheskoy] Khim[ii] (USSR) 1949, v. 23, no. 9, p. 1031-1035.
A translation available in English from SLA as RT-1914.

DESCRIPTORS: Oxides, Films, *Iron, *Coatings, Temperature, Oxidation.

(Chemistry--Physical, TT, v. 6, no. 3)

61-19589

I. Dankov, P. D.
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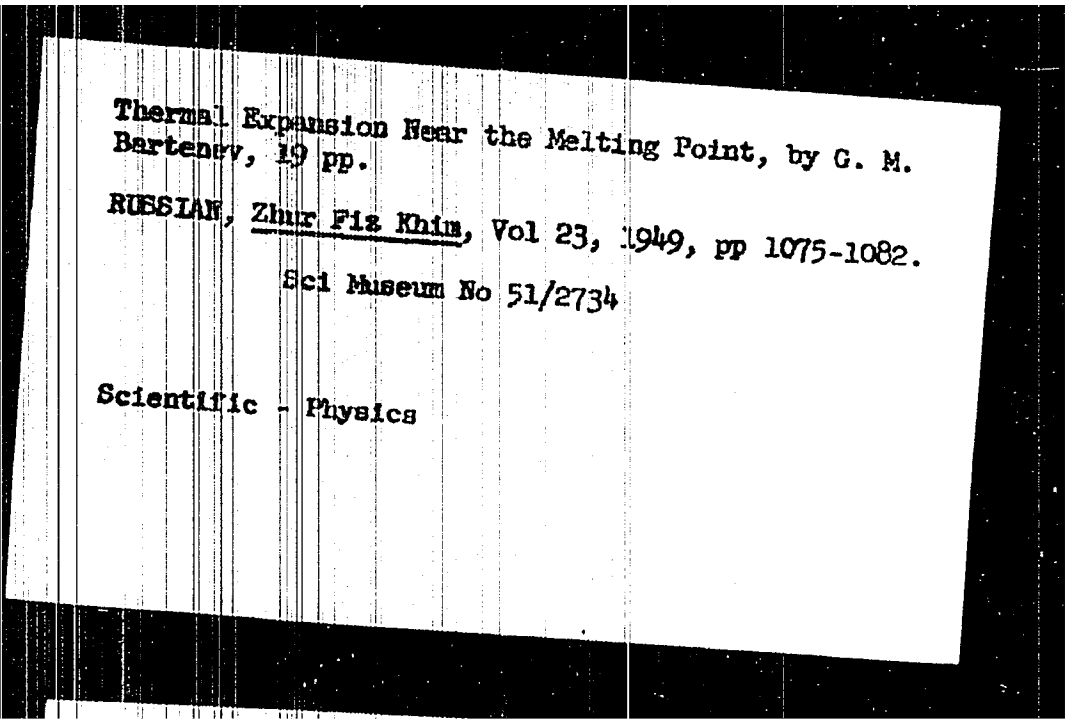

Thermal Expansion Near the Melting Point, by G. M. Bartenev, 19 pp.

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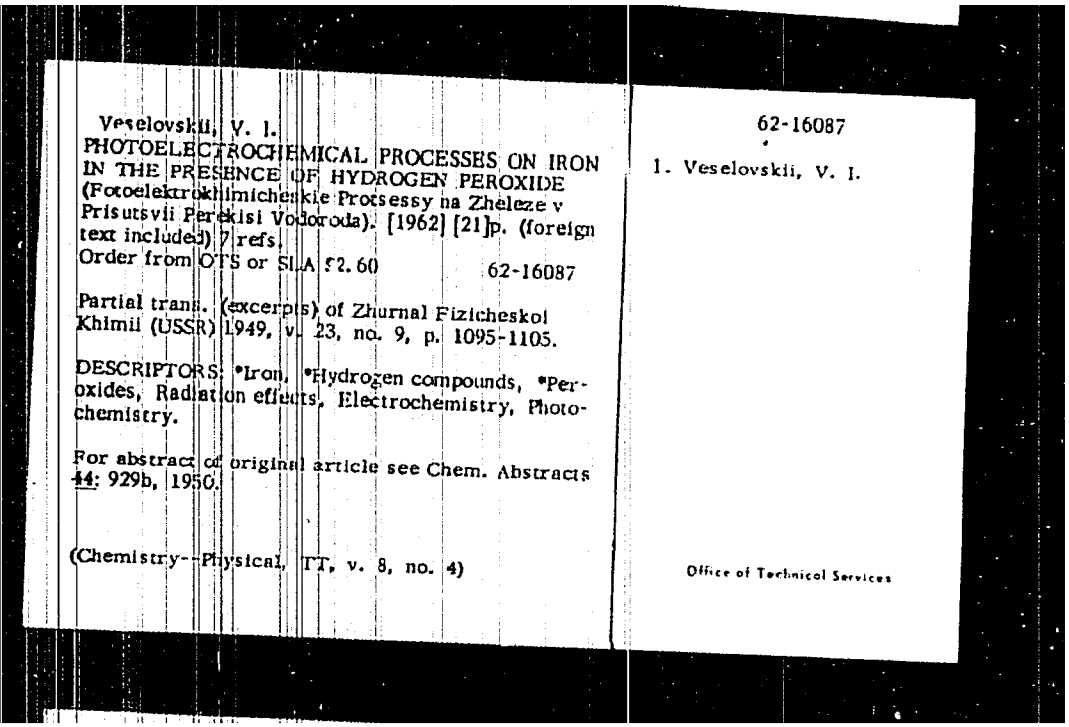

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Order from OTS or SLA $2.60 62-16087

Partial trans. (excerpts) of Zhurnal Fizicheskoi Khimii (USSR) 1949, v. 23, no. 9, p. 1095-1105.

DESCRIPTORS: *Iron, *Hydrogen compounds, *Peroxides, Radiation effects, Electrochemistry, Photochemistry.

For abstract of original article see Chem. Abstracts 44: 929b, 1950.

(Chemistry--Physical, TT, v. 8, no. 4)

62-16087

1. Veselovskii, V. I.

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Photolysis of Silver Erythrosinate and the Mechanism of the Sensitized Photochemical Decomposition of Silver Halide, by S. V. Natanson, G. L. Natanson, 22 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 9, 1949, pp 1106-1115.

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Scientific - Chemistry
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The Sorption and Structure of Active Charcoals. VI. Structural Types of Active Charcoals, by M. M. Dubinin and E. D. Zaverina, UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, 1949, Vol 23, No 10, pp 1129-1140.

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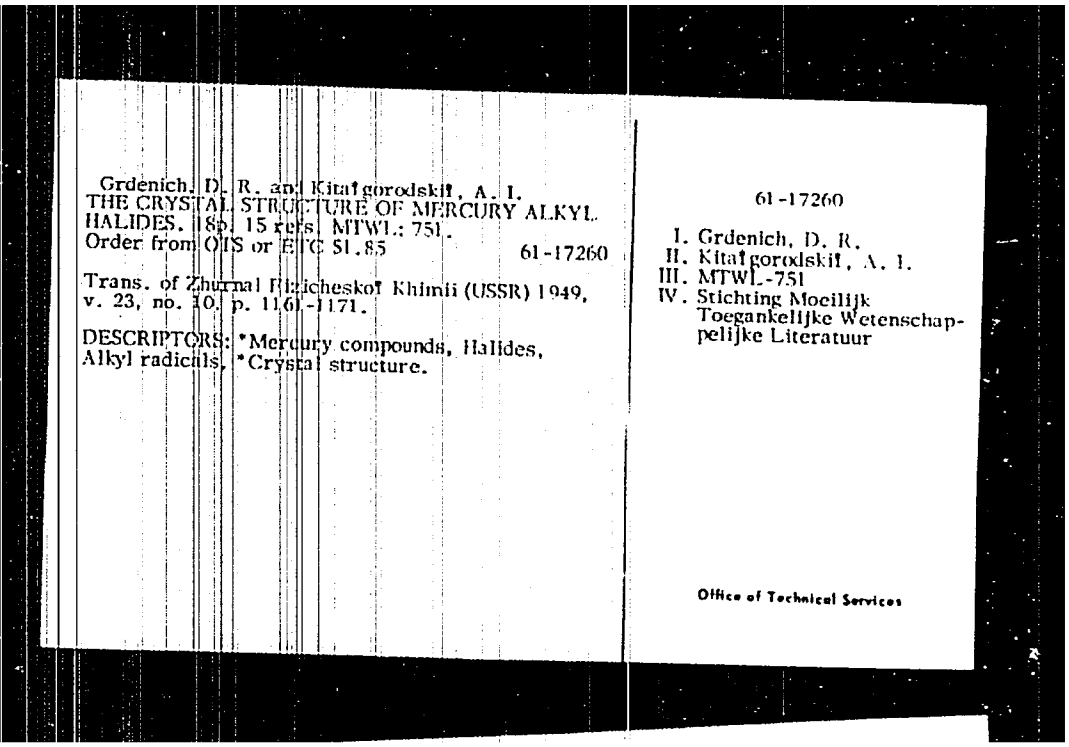

Grdenich, D. R. and Kitaigorodskii, A. I.
THE CRYSTAL STRUCTURE OF MERCURY ALKYL HALIDES. 8p. 15 refs. MTWL: 751.
Order from OTS or ETC $1.85 61-17260

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1949, v. 23, no. 10, p. 1161-1171.

DESCRIPTORS: *Mercury compounds, Halides, Alkyl radicals, *Crystal structure.

61-17260

I. Grdenich, D. R.
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III. MTWL-751
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ZFK, XXIII, No. 10, 1949 pp. 1187-96

THE EFFECT OF DIETHYL PEROXIDE ON THE DECOMPOSITION OF NORMAL BUTANE

MAYZUS, Z. K., et. al.

Proj. 4366
(part of)

CD ST-24

AEC 21. 301
Translated

SR [illegible] U-934

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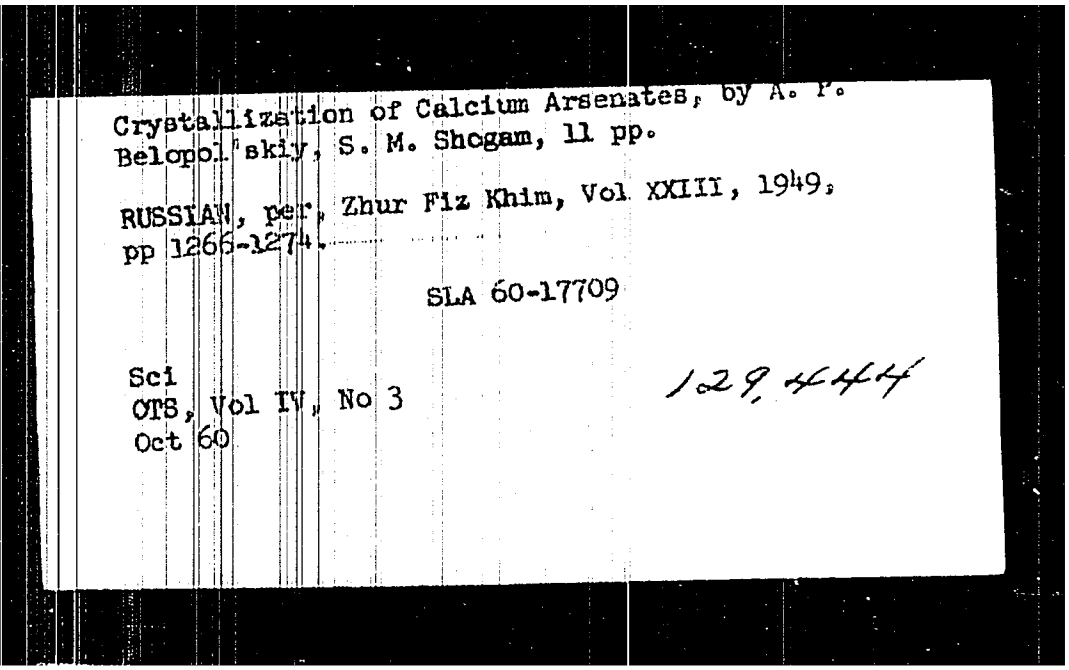

Crystallization of Calcium Arsenates, by A. P. Belopol'skiy, S. M. Shogam, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, 1949, pp 1266-1274.

SLA 60-17709

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290038-3

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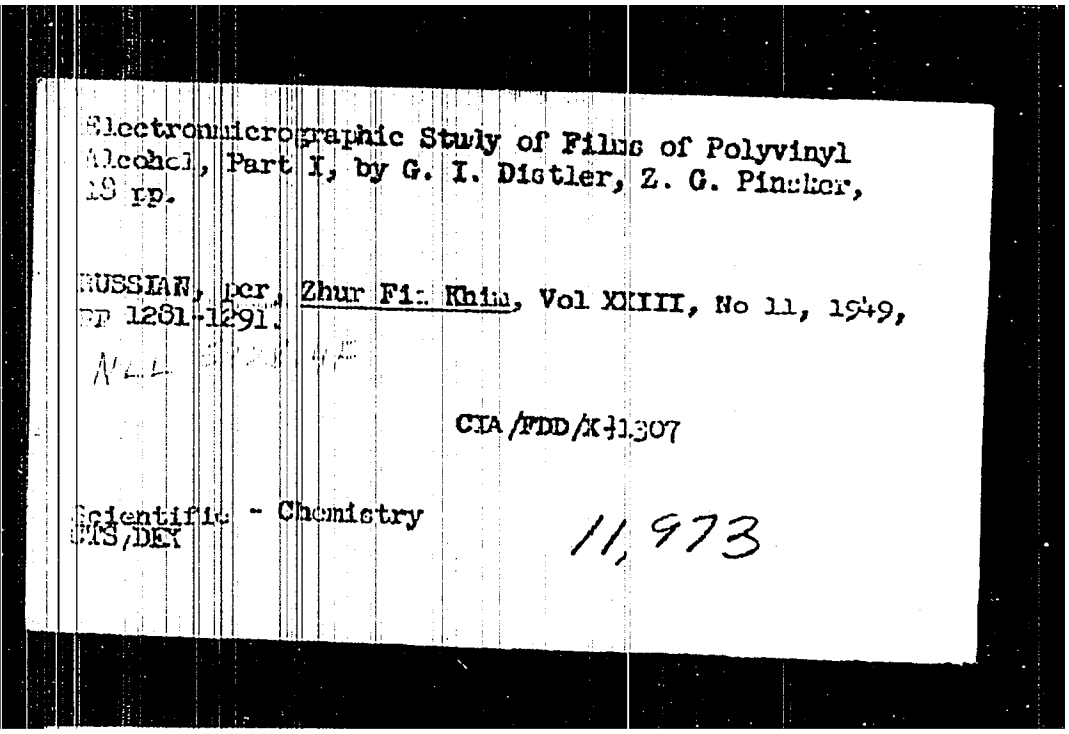

Electronmicrographic Study of Films of Polyvinyl Alcohol, Part I, by G. I. Distler, Z. G. Pinsker, 19 pp.

RUSSIAN, per, Zhur Fiz. Khim, Vol XXIII, No 11, 1949, pp 1281-1291.

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Oxygen Quenching of the Fluorescence of Anthraquinone Derivatives in Vaporous State, by EX A. V. Karyakin, 21 pp. UNCLASSIFIED

RUSSIAN, mo per, Zhur Fiz Khim, Vol XXIII, No 11, Nov 1949, pp 1332-1344.

ATIC F-TS-8163-A

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RUSSIAN, mo per, Zhur Fiz Khim, Vol XXIII, No 11, Nov 1949, pp 1345-1356.

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ZFK, XXIII, No. 11, 1949 pp. 1361-74

THEORY OF SPARK IGNITION OF EXPLOSIVE GAS MIXTURES

ZEL'DOVICH, Ya. B., et. al.

Proj. 4366
(part of)

CD ST-24

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Relationship Between the Structure of Vinyl Compounds and their Ability to Polymerize, by Kh. S. Bagdasar'yan, 21 pp.

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Investigation on Finishing Photographic Emulsions, I. Finishing Importance of Gelatin; Effect of Temperature and the Concentration of Bromide Ions, by K. V. Chibisov, A. A. Titov, A. A. Mikhaylova, 24 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 12, 1949, pp 1387-1398.

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New Methods for the Measurement of the Specific Surface (in cm^2/g) and of the Specific Adsorption (in g/cm^2). Part I, by B. V. Deryagin, V. I. Krylova, R. M. Fridlyand

RUSSIAN, mo per, Zhur Fiz Khimii, Vol XXIV, No 11, 1950, pp 1371-1382.

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The Dependence of Chemical Reaction Rates on Pressure, by M. G. Gonikberg, L.F. Voreshagin. RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 23, No 12, 1949. P911143666
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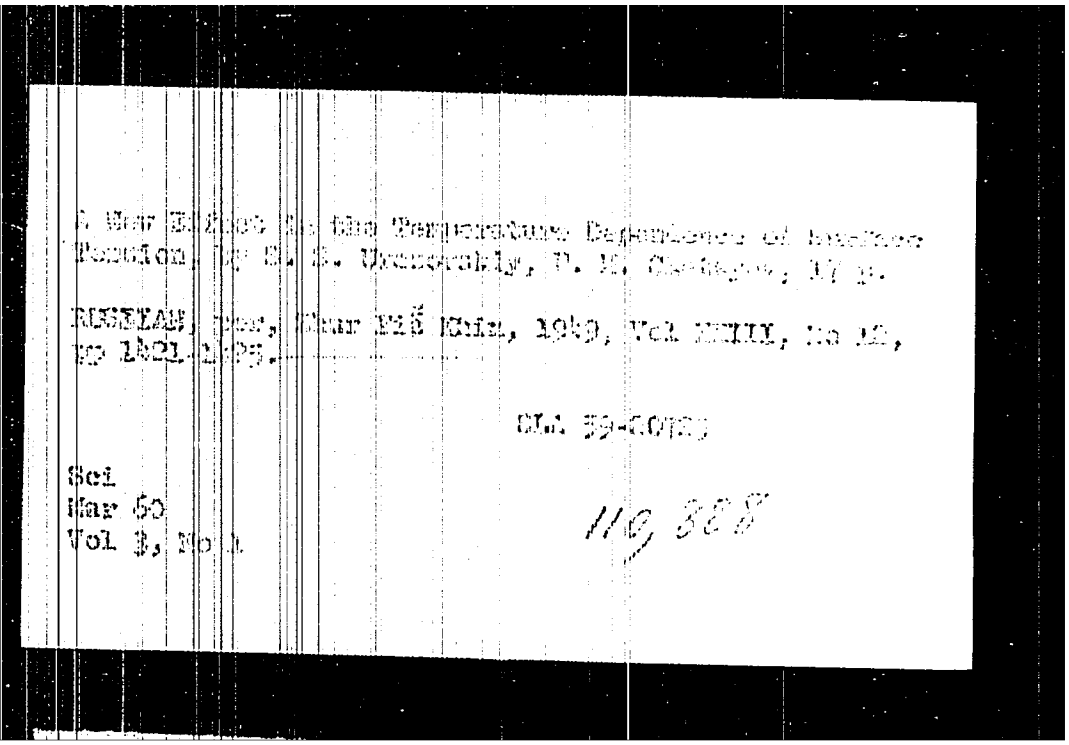

[illegible] Effect [illegible] Temperature Dependence of Neutron Reaction, by E. E. Underwood, P. M. Claridge, 17 p.

RESTAR, Oak, Ohio, Mar 15 1960, Vol XXIII, No 12, pp 1421-1425.

CLA 59-0078

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Effect of Organic Additions Upon Over-Voltage During Separation of Hydrogen and Chromium and The Overcharging of Titanium and Vanadium Ions, by M. A. Loshkarev, A. A. Kryukova.
RUSSIAN, per. Zh. Fiz. Khim, Vol 23, No 12, 1949, pp 1457-1463.
NLL 5828.4F (11717)

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DESCRIPTORS: *Fused materials, *Magnesium compounds, *Chlorides, *Potassium compounds, *Sodium compounds, Thermodynamics.

K-H-975.9 L

(Chemistry--Physical, TT, v. 11, no. 3)

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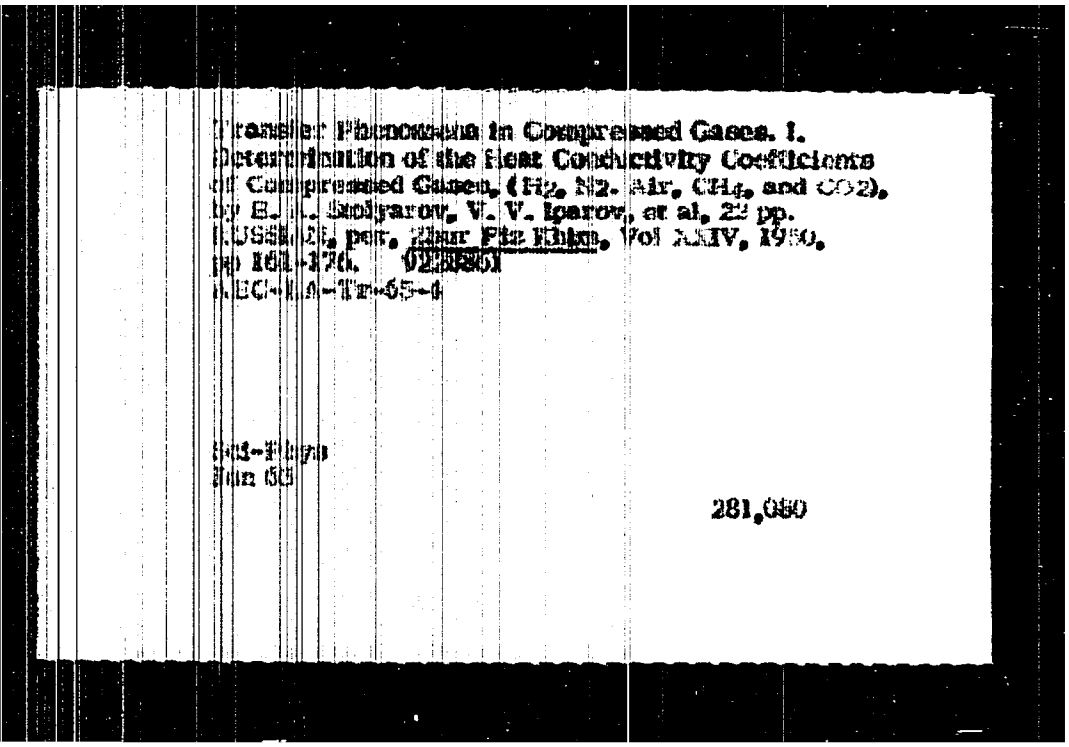

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AEC Tr 1096

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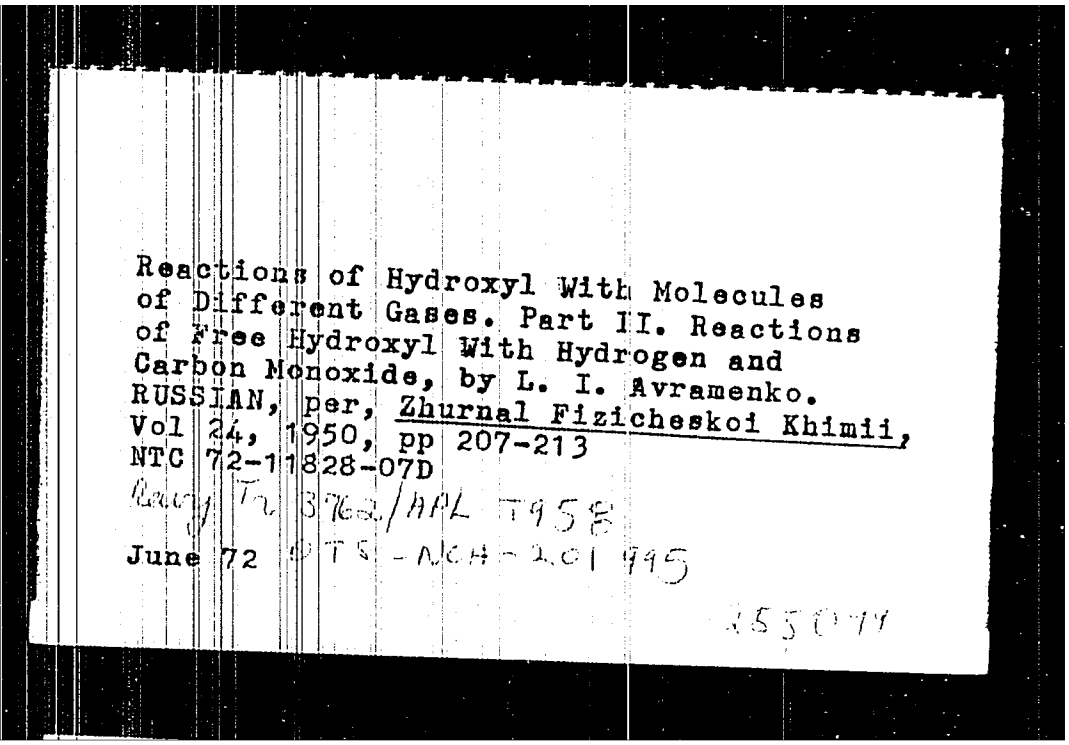

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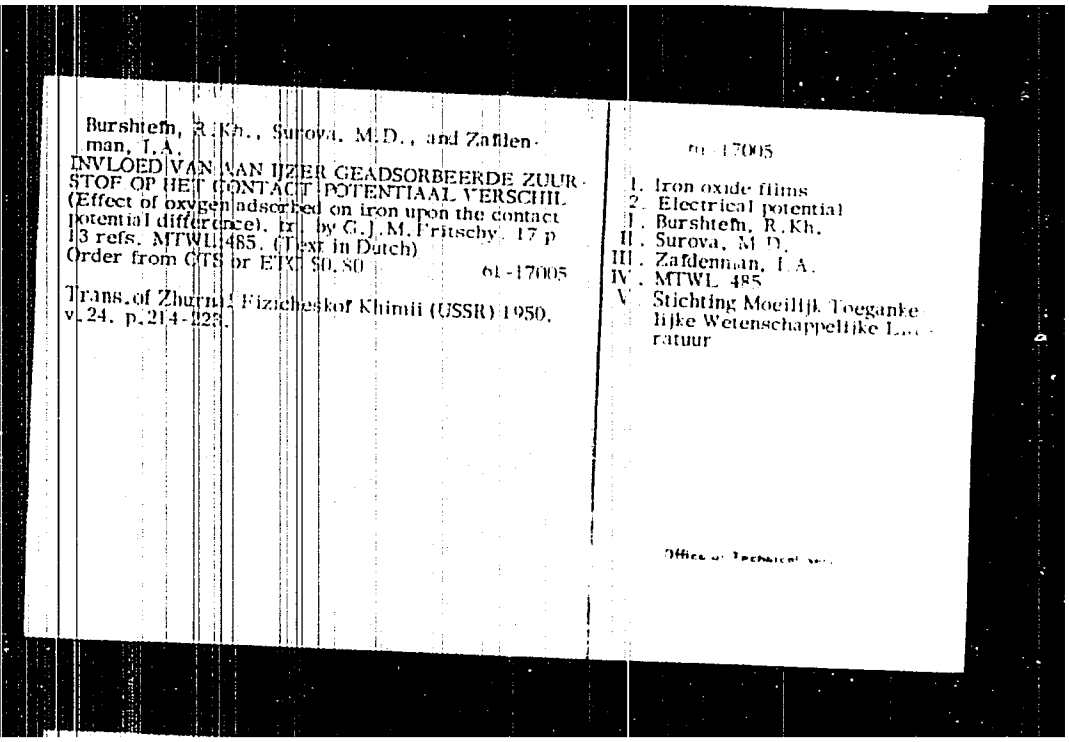

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13 refs. MTWL 485. (Text in Dutch)
Order from CTS or ETS $0.80 61-17005

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R.A.E. Lib No 461

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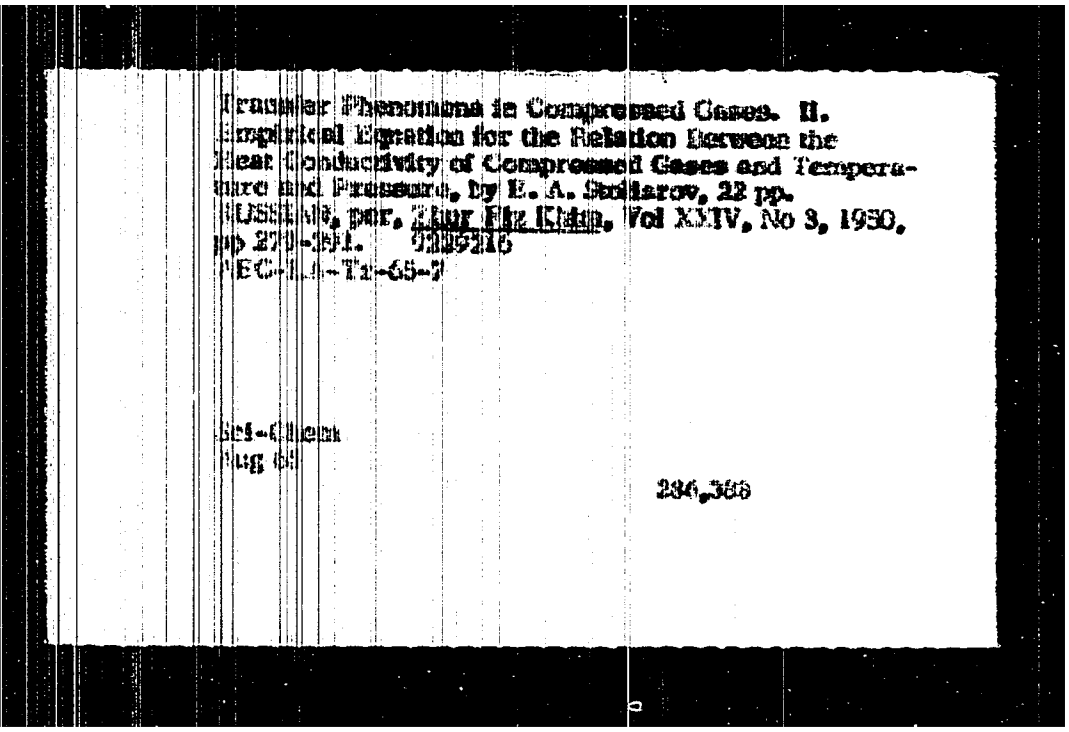

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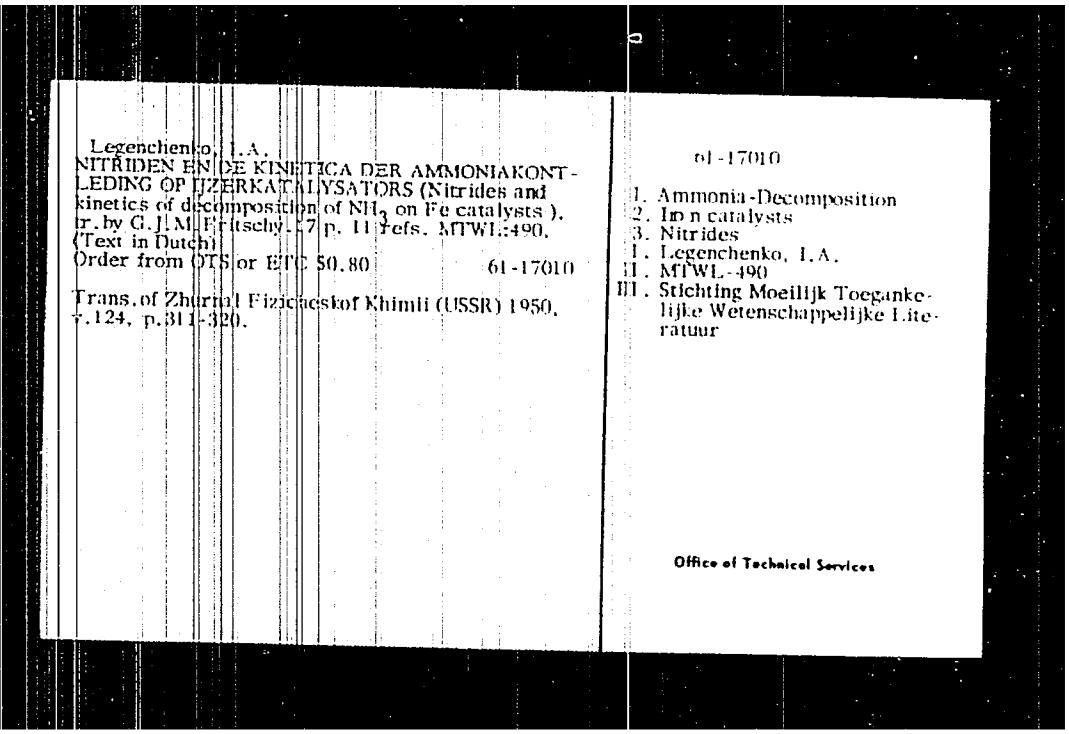

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1. Ammonia-Decomposition
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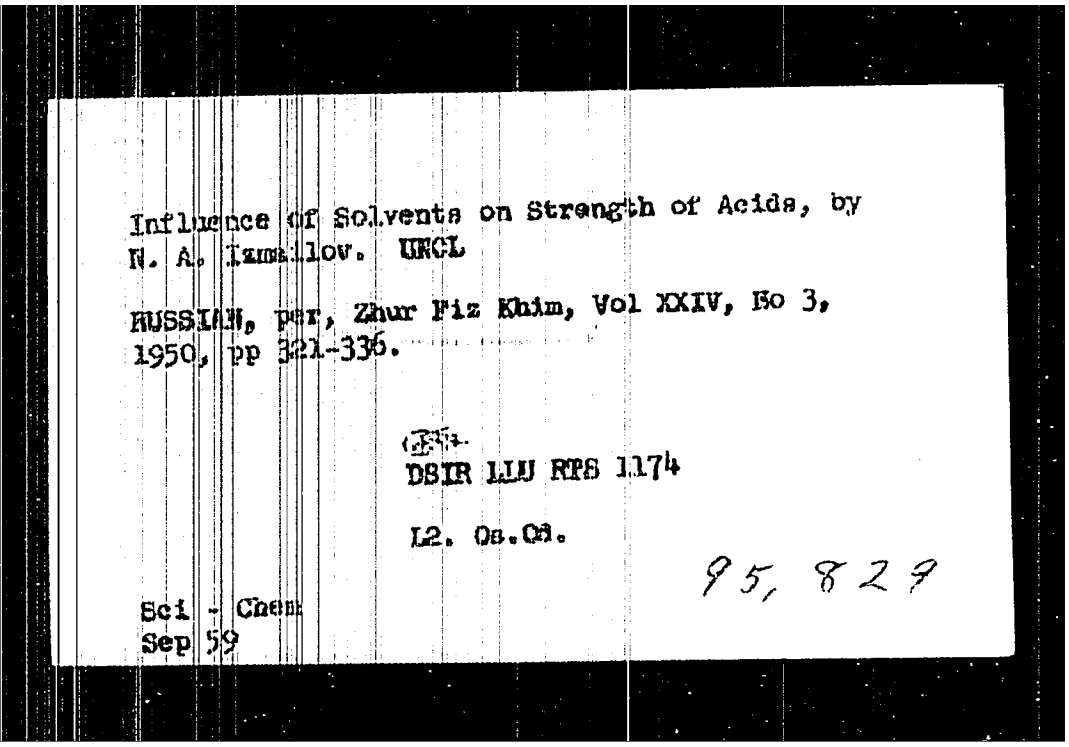

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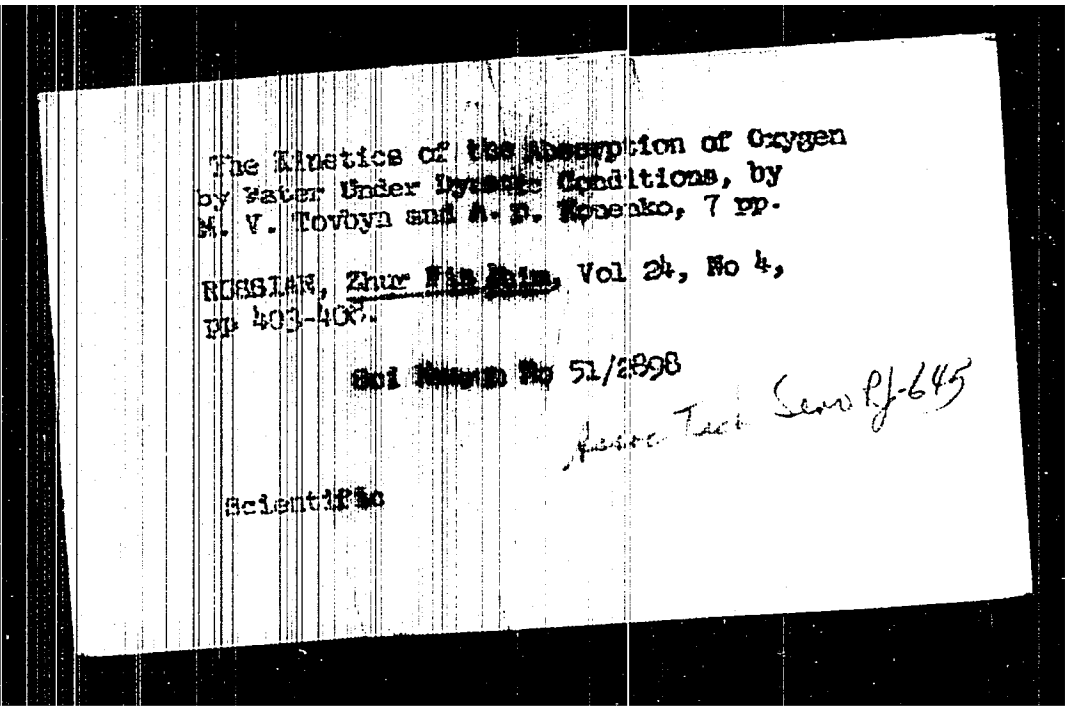

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Sci Rpt No 51/2898

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OTS TT-[illegible]-20502(KP)

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Full translation.

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AEC Tr 1247

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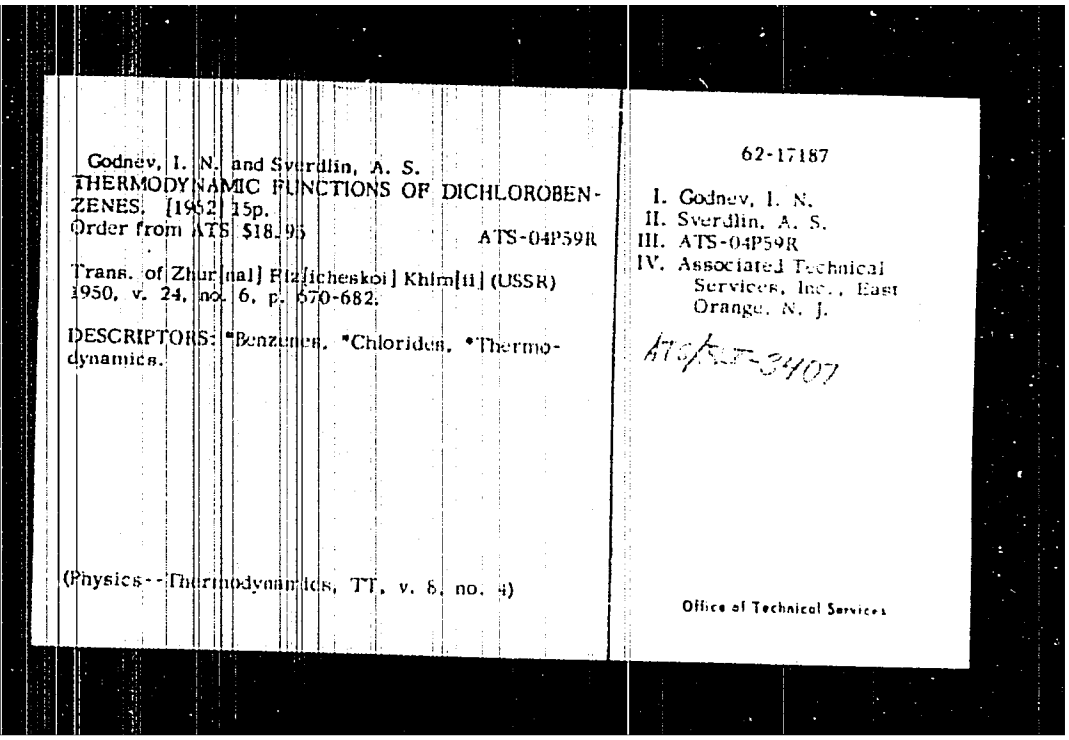

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THERMODYNAMIC FUNCTIONS OF DICHLOROBENZENES. [1952] 15p.
Order from ATS $18.95 ATS-04P59R

Trans. of Zhurnal] Fizicheskoi] Khim[ii] (USSR) 1950, v. 24, no. 6, p. 670-682.

DESCRIPTORS: *Benzenes, *Chlorides, *Thermodynamics.

(Physics--Thermodynamics, TT, v. 8, no. 4)

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SLA 60-17378

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SLA R-1499

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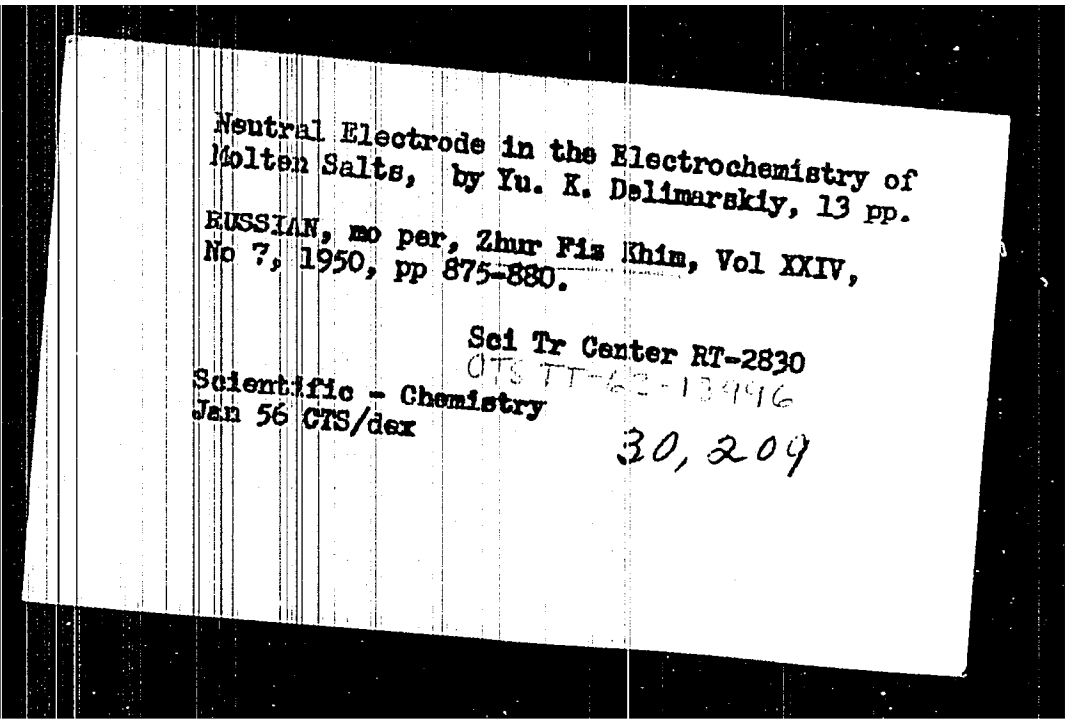

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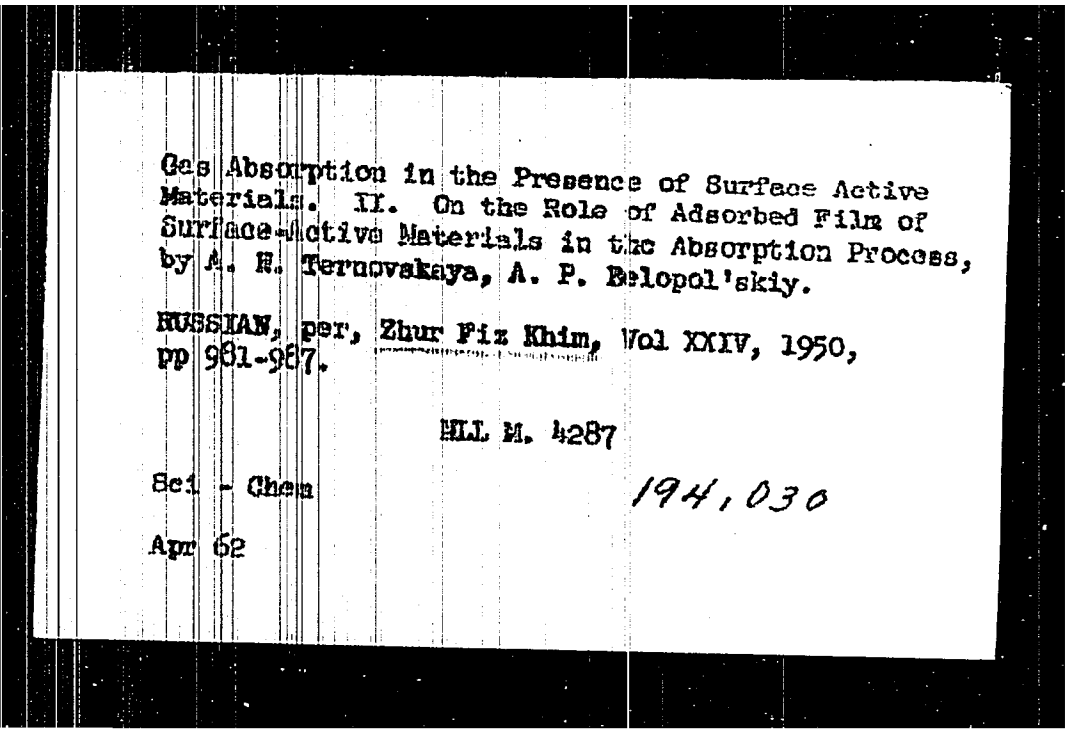

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HLL M. 4287

Sci - Chem

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290038-3

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RUSSIAN, per, Zhur Fiz Khim, Vol XXIV, No 9, 1950, pp 1068-1082.

AEC Tr 1165
ET 348

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APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290038-3

APPROVED FOR RELEASE: Wednesday, July 10, 2002 CIA-RDP91-00772R000201290038-3

Vol'kenshtefn, F.F.
DE INVLOED VAN DE TOEVOEGING VAN KLEINE HOEVEELHEDEN VAN EEN VREEMD BIJMENGSEL OP DE KATALYTISCHE ACTIVITEIT VAN IONAIRE KATALYSATOREN (Effect of small quantities of impurities on the catalytic activity of ionic catalysts). 26 p. 2 refs. MTWL: 454 (Text in Dutch).
Order from OTS or ETC $2.37 61-17043

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1950, v. 24, p. 1068-1082.

DESCRIPTORS: *Catalysts, *Ionization, Chemical impurities, Theory.

61-17043

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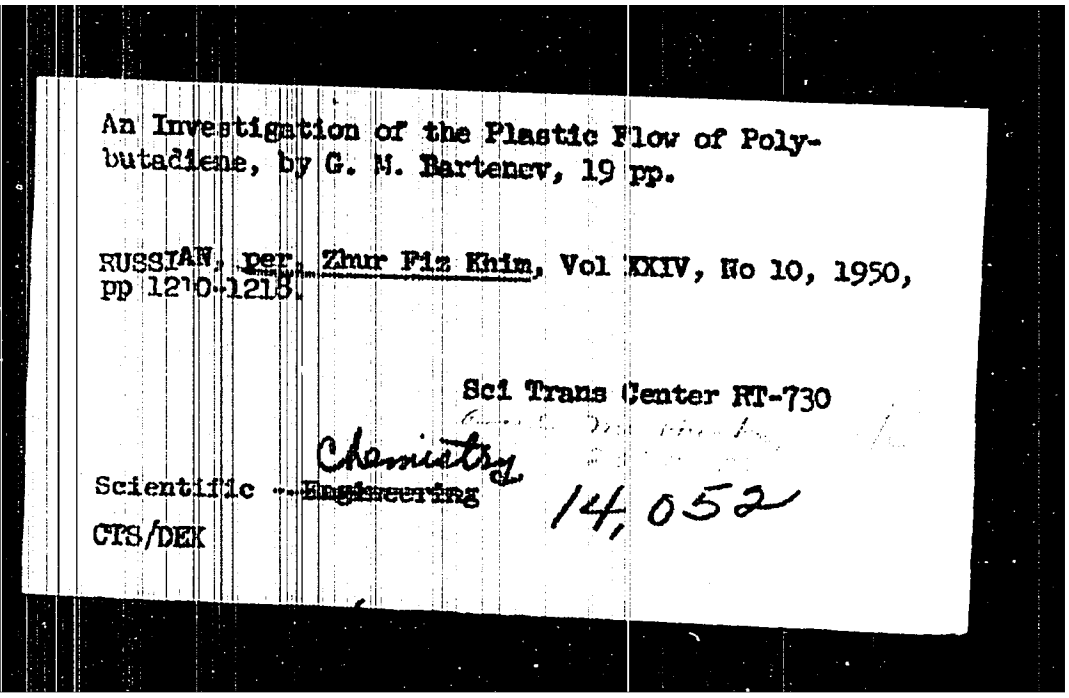

An Investigation of the Plastic Flow of Polybutadiene, by G. M. Bartenev, 19 pp.

RUSSIAN, per. Zhur Fiz Khim, Vol XXIV, No 10, 1950, pp 1210-1218.

Sci Trans Center RT-730

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The Kinetics of the Transformation of Polymorphous Modifications of Ammonium Nitrate. 1. The General Character of the Kinetics of the Transformation of Modification IV to Modification III., by B. V. Erofeyev, M. I. Mitskevich, 19 pp.

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Mchedlov-Petrosyan, O. P.
THERMODYNAMIC STUDY OF SOLID PHASE REACTIONS IN MAGNESIUM SILICATE SYSTEMS. [1963] 7p (figs omitted)
Order from K-H $7.00 K-H 3980 b

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1950, v. 24, no. 11, p. 1299-1301.

DESCRIPTORS: *Silicates, *Magnesium compounds, Chemical reactions, Phase studies, Solids, Thermodynamics

(Physics--Thermodynamics, TT, v. 11, no. 2)

TT-63-22806

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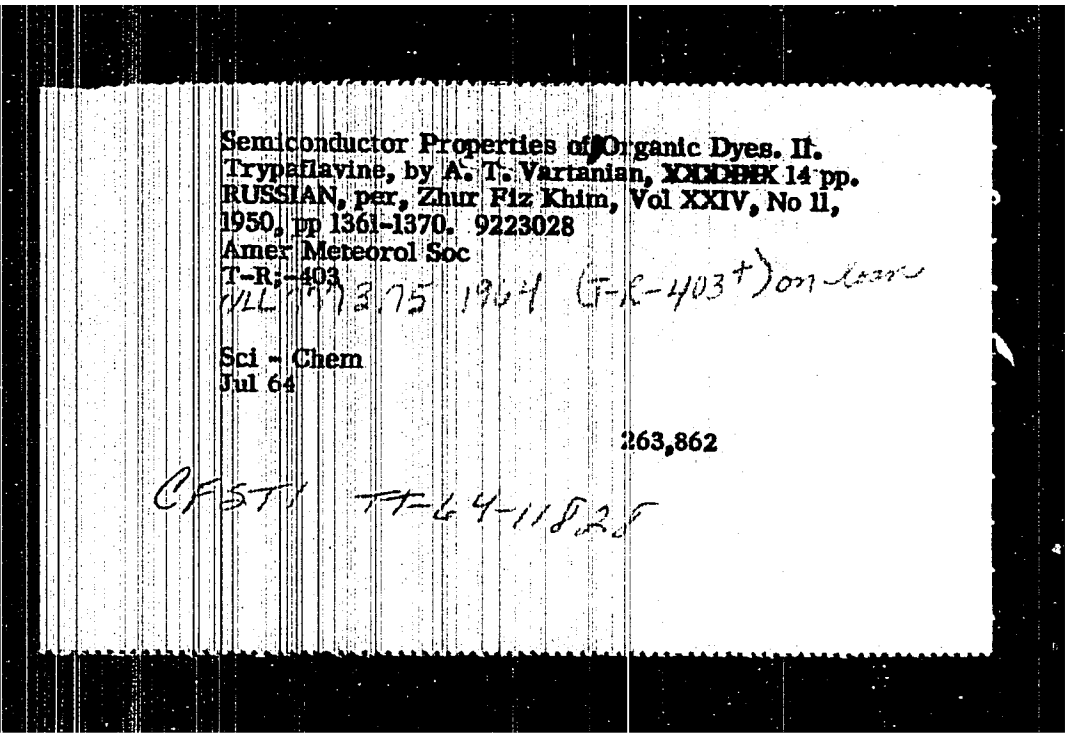

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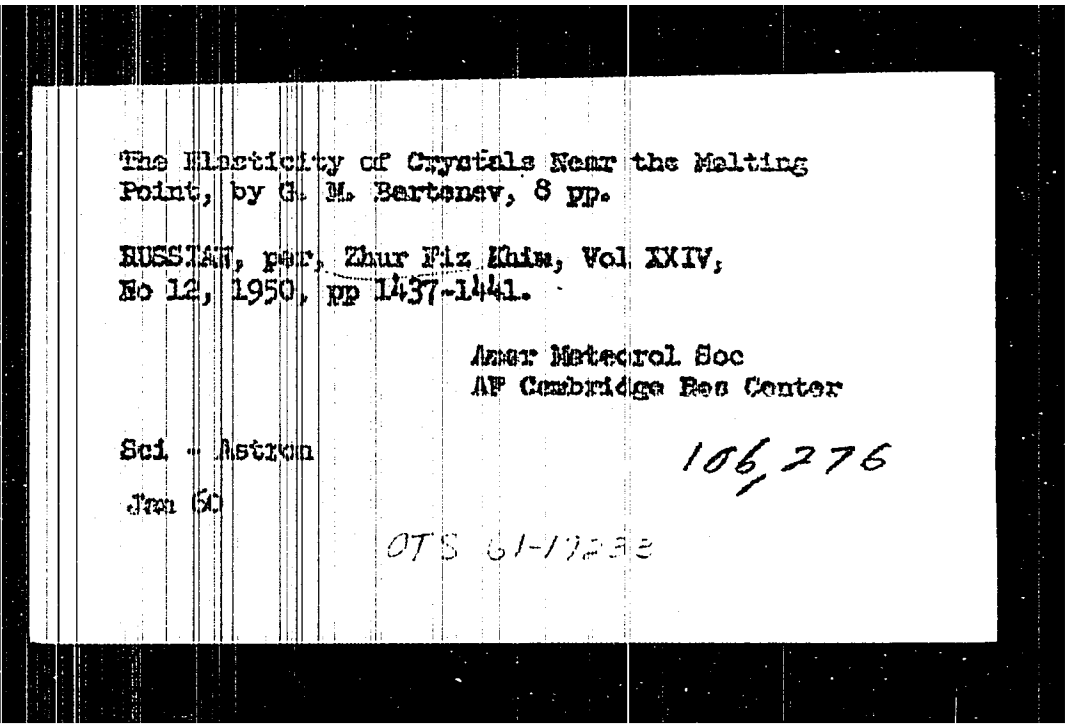

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Full translation.

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Scientific - Chemistry, polarization, alloys, electrolytes

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Electrochemical Behavior of Metals Under Passivating Conditions, by Ya. M. Kolotyrkin, V. M. Knyazheva,

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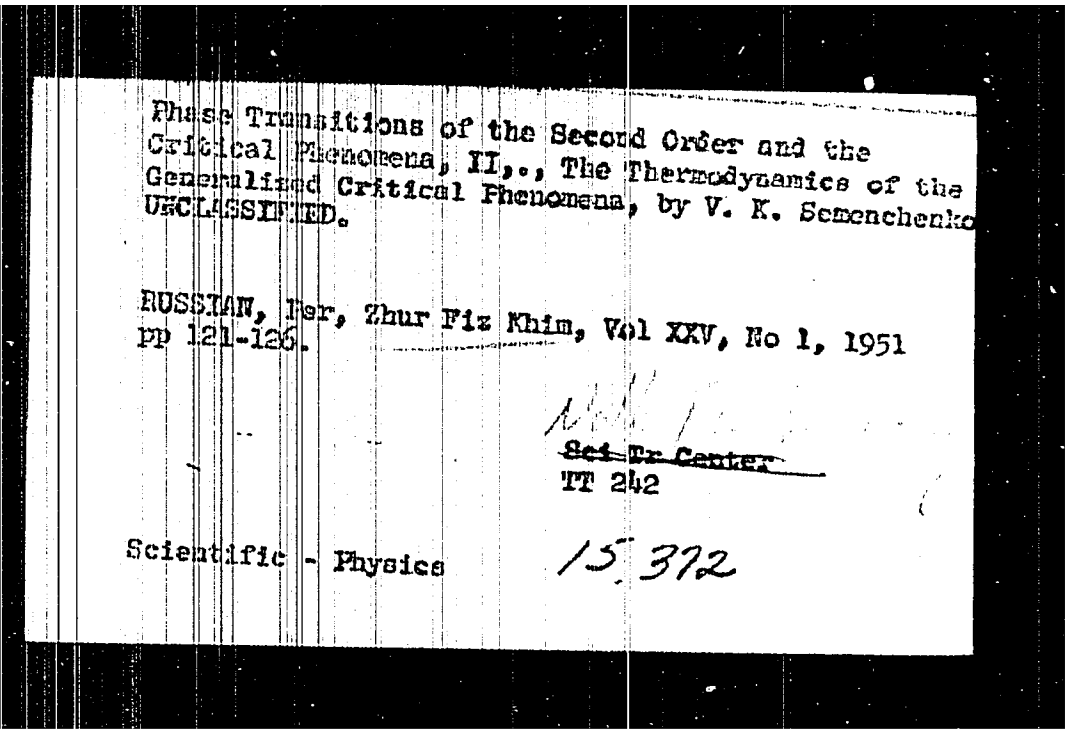

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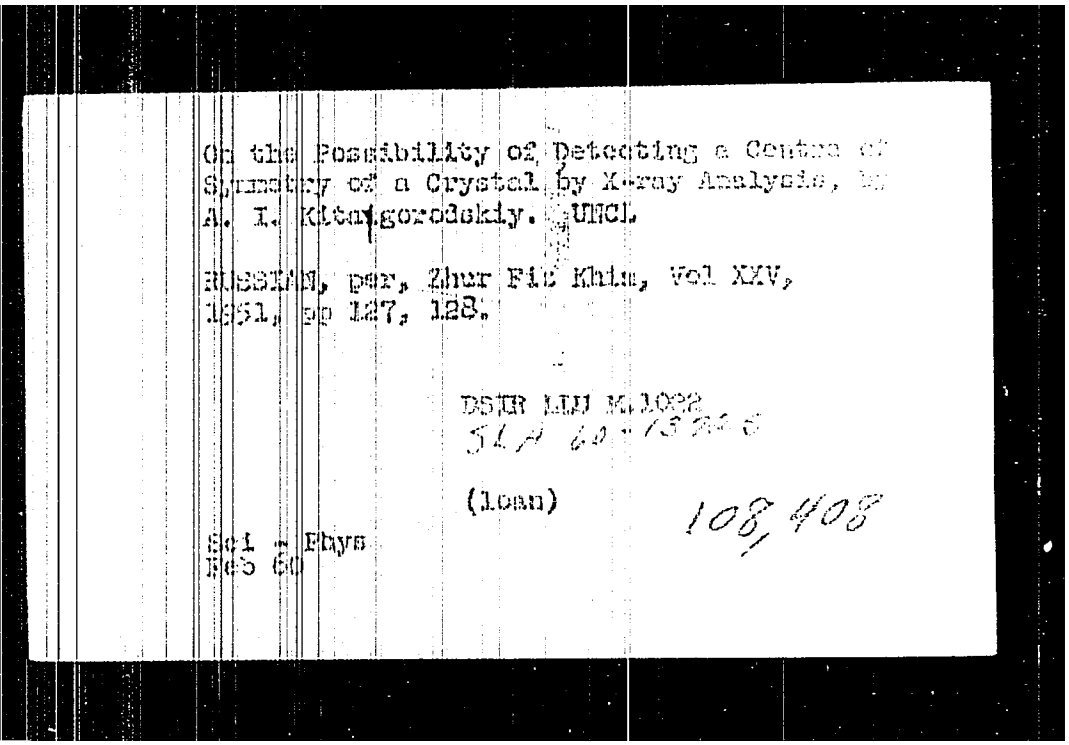

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The Theory of ~~XE~~ the Kinetics of Two Consecutive Irreversible Reactions of the Second Order, by A. D. Stepukhovich, L. M. Timonin

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AEC Tr 1159

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Tovbin, M. V. and Krasnova, S. I.
STABILITY OF SUPERSATURATED SALT SOLUTIONS
Bertha P. Klenova, tr. 12 Sep 62. 12p 4refs [TVA]-3994.
Order from OTS, SLA, or ETC $1.60 TT-63-24284

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1951, v. 25 [no. 2] p. 161-169. (Abstract available)

DESCRIPTORS: *Salts, *Solutions, Stability, Temperature, Valence, Solvent action

The influence of various factors on the stability of supersaturated solutions of a number of salts was investigated. An investigation was made of the stability of supersaturated salt solutions as a function of temperature. A study was also made of the effect of the solvent on the stability of supersaturated salt solutions. The results obtained support the assumption that supersaturated solutions are ultramicroheterogeneous systems. (Author)

TT-63-24284

I. Title: Supersaturated solutions
I. Tovbin, M. V.
II. Krasnova, S. I.
III. TVA-3994
IV. Tennessee Valley Authority, Wilson Dam, Ala.

(Chemistry--Physical, TT, v. 11, no. 3)
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Kinetics of Chain Decomposition of Ethane at Pressures Above Atmospheric, by Stepukhovich, A. D., and Mitenkov, P. M.

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